

## Appendix C

### The User Survey and Sampling Procedures<sup>i</sup>

This section is devoted to a description of the *sampling* procedures used in a survey of Chesapeake Beach Use conducted in 1984. Unlike the data used in analyses of boating and fishing in Chapters 5 and 6, the data used in this chapter were collected during an earlier budget period of this cooperative agreement. Great care was taken with the sampling frame to improve confidence in the results. Because the survey itself is important to the project, we describe the content and procedures extensively. Copies of the survey instruments can be found in Appendix C.

From May 26, 1984 to August 19, 1984, Research Triangle Institute (RTI) interviewed individual on the western shore beaches in Maryland. The study population consisted of all residents of the Baltimore and Washington, D. C., SMSA's, age 14 or older, that used these beaches for recreation in 1984. More specifically, the population was limited to recreational users of the following 12 beaches:

<u>Beach</u>	<u>Strata</u>	
	<u>Geographic</u>	<u>Size</u>
1. sandy Point	north.	large
2. Point Lookout	south	large
3. Fort Smallwood	north	small
4. Miami	north	small
5. Rocky Point	north	small
6. Elm's Beach	south	small
7. Bay Ridge	south	large
8. Kurtz	north	small
9. Breezy Point	south	small
10. Rod & Reel	south	small
11. Morgantown	south	ml 1
12. North Beech	south	Oman

Four hundred and eight individuals were interviewed at the beach to learn of their recreational patterns and perception of water quality at these beaches. These individual were randomly selected from sample beaches and days. The sampling design can be described as a two-stage stratified sample in which a probability sample of beaches and days was selected, and a random systematic sample of persons was interviewed at each sample site (day-beach combination).

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<sup>i</sup> The discussion of the sample is composed of selected excerpts from Devore, McDonald, Myers and Williams, Chesapeake Bay Beach Use Survey, Research Triangle Institute, 1984.

A sample of at least 300 completed interviews was intended so that relative sampling errors would be approximately 11 percent or less for estimating proportions of .30 or larger. This assumes that a design effect of approximately 1.5 might result because of clustering (a beach-day unit constitutes a cluster of individuals) and unequal weighting. A self-weighting sample was sought but difficult to obtain because of errors in size measures (projected number of users for a beach-day unit).

The number of sample **primary** sampling units (PSU) was based on the requirement to obtain at least 300 completed interview, such that each PSU would involve approximately one-half day of interviewing for a two-person team. To match this design, each PSU was randomly designated a. a morning or afternoon interview period, beginning at 1000 and 1300 hours, respectively. Hence, an average of eight or nine completed interview, was expected for each of the 36 PSU's (see Table 4.1 for sample allocation).

#### Stratification and Sample Selection

Primary sampling unit. (PSU's) consisted of beach-day units (1,204 PSU's = 66 days x 14 locations). The 14 locations consisted of 11 beaches plus three beach locations at Sandy Point - partitioned into three segments because of its relatively large size and usage. Beaches were stratified into north (Sandy Point and beaches north) and south (the prior listing of beaches indicates the stratification). The beaches were further stratified by size (expected weekly usage). Large is defined as greater than 7,000 visitors per week in north beaches and greater than 3,000 in the south beaches. Additionally, days were stratified into weekdays, Saturdays, and Sundays (and holidays). The strata, their population and sample PSU counts are indicated in Table C1.

Table C. 1  
Population Counts and PSU Allocation by Stratum<sup>1</sup>

	Anticipated Number of Beach Visitors May 26 to August 19, 1964 (thousands)				Number of PSU's (beach-day units) Allocated to Each Stratum			
	Sat	Sun	Weekday	Total	Sat	Sun	Weekday	Total
North/large	77	110	106	293	3	5 <sup>2</sup>	5	13
North/small	6	7	6	94	3 <sup>a</sup>	4 <sup>2</sup>	4	13
south/large	37	43	44	124	2 <sup>2</sup>	2	2 <sup>2</sup>	6
South/small	20	24	17	61	2 <sup>2</sup>	2	2	6
Totals	201	261	259	721	10	13	13	36

<sup>1</sup> Population counts are based on cite interviews prior to the survey, and PSU allocation is proportional to number of visitors with the **constraint** that greater or equal to two per cell are selected.

<sup>2</sup>One fewer resulted in these cells because of random subsampling needed in the latter part of the survey period. (A slightly larger number of interviews than expected were obtained early in the survey.)

The selection of PSU's within strata involved equal probability  $y$  for days and probability proportional to size (expected number of visitors) for beaches. Within selected PSU's, individual were selected on site with equal probabilities. Approximately eight or nine interviews were needed from each PSU. The procedure used to satisfy this objective was for the interviewer to estimate the number of beach users just prior to starting time for interviewing. By comparing this estimated count to a table prepared specifically for this survey, the interviewers obtained a sampling interval and a random starting point. By using the interval and starting point in a pre-designated pattern for the entire site, a valid systematic sample of users was obtained.

### Sampling Weights

Whenever observation units (in this case the individual users) enter the sample with different probabilities, weights must be used with the observation to obtain unbiased estimates for the study population. Because of the complexities in an intercept-type survey, selection probabilities are often not known. In the present survey, however, PSU selection probabilities are known, and final-stage selection of individual can be reasonably estimated (even though a systematic sample of visitors at the site is taken), their chance of selection will vary with the amount of time spent at the beach during the sample day as well as number of visits to this and other study beaches during the survey period. A sampling weight for the  $j^{\text{th}}$  individual is calculated as follows:

$$W_{ij} = p_i^{-1} p_{ij}^{-1} f_{ij} f'_{ij}$$

where

- $p_i$  =  $\frac{1}{d} \frac{S_i}{s_i}$  the "selection probability" (expected number of hits) for PSU (i);
- $d$  = the number of days during the survey period for the particular type of day being sampled ( $d = 13$  for Saturdays, for example);
- $n$  = number of PSU's being selected for the stratum (12 strata);
- $s_i$  = size measure for PSU (i) = the expected number of visitors for that type of day ( $s_i = ES_i$ );
- $p_{ij}$  = sampling rate of users within sample PSU (i); and
- $f_{ij}$  and  $f'_{ij}$  = factors to adjust for number of hours user spent at the beach on the sample day and number of trips to the study beaches during the summer, respectively.

Note that  $f_{ij}$  and  $f'_{ij}$  are based in part on intentions. In *fact*,  $f'_{ij}$  is particularly uncertain if the interview is being conducted early in the season. To verify the accuracy of these intentions both to obtain selection multiplicity and to estimate related statistics, intention-based questions were verified by telephone at the end of the season for interviews taken early in the survey.

### Screening and Confirmation

A screening *form* was designed to identify as eligible respondents only those people living in certain counties of Virginia or Maryland, or Washington, D.C. In addition, the screening process ruled out as ineligible any person who was under 14 years of age; however, if the selected sample individual was over 14 but less than 18 years of age and in the company of someone he/she lived with who was over 18 years of age, the *interviewer deferred to* the older individual.

The User Intercept Survey Questionnaire was designed to record and collect the following:

- Frequency of visits made to beaches on the western shore of the Chesapeake
- Activities that the respondent (and his/her family) participated in when visiting beaches
- Activities not participated in and the reason why they were not
- Cost related to a typical trip to each beach that the respondent had visited since January 1, 1984
- The respondent's perception of the quality of the beach and the beach facilities at each beach with which he/she was familiar
- Factors that influence a respondent's decision to visit or not visit a beach
- The respondent's willingness to continue to visit the sample site if costs related to the use of the beach were to rise.

In addition, a series of demographic questions to enable analysts to establish profiles of beach users were also included in the questionnaire.

A Confirmation/Intention Contact sheet (used in conjunction with a Record of Calls sheet) was developed not only to confirm the number of visits to sample beaches reported in the Intercept Survey Questionnaire, but also to ascertain the number of visits the respondents intended to make at any sample beach for the rest of 1984. The confirmation/intention *contacts were* only made with those respondents who had provided adequate information to contact them by telephone.

### Data Collection Procedures

The data collection schedule originally called for a total of 36 visits to the 12 sample beaches, with an expected yield of 300 or more completed interviews. This schedule was later revised and the subsequent number of total visits was reduced. Table C.2 shows the original data collection schedule. Those sampling days which were eliminated have been denoted by an asterisk. The resulting number of visits are summarized as follows (AM indicates interviewing beginning in the morning at 10 o'clock, and PM indicates interviewing beginning at 1 o'clock in the afternoon):

Beach Number	Beach Name	AM Visits	PM Visits	Total Visits
1	Sandy Point	5	6	11
2	Point Lookout	1	1	2
3	Fort Smallwood	1	0	1
4	Miami	0	3	3
6	Elms	0	0	0
7	Bay Ridge	0	3	3
8	Kurtz Pleasure Beach	0	1	1
9	Breezy Point	0	1	1
10	Rod and Reel Dock	1	0	1
11	Morgantown	1	1	2
12	North Beach	1	0	1
	TOTALS	12	18	30

For the User Intercept Survey, each field interviewer was given a list of the names, addresses, and ID numbers for each PSU (beach) in the assignment, along with area maps with the beaches marked. In addition, each interviewer was given a sketch of each beach. Other materials included were the table to determine sampling rates and listing forms for counting and selecting sample individuals. The interviewers always worked as a team, splitting up only to interview eligible respondents.

The *field* interviewers were asked to review their materials and determine the most efficient route of travel to reach each beach. Upon arrival at a beach, they had first to check that they had correctly identified and located the precise boundaries of the area. Once this was verified, the interviewers estimated the number of sample individual on the beach, spending no more than 30 minutes in doing so. When the estimate was determined, they looked up that number in the table of sampling intervals. Marking the estimate and sampling interval at the top of the listing form, they next consulted their list of random numbers to determine the number of the first person to be interviewed and marked that in the space provided on the listing form. They circled the number of the randomly selected start person, counted the proper interval, and circled the last interval number as the *next* selected person. This activity continued *until* they had gone through the entire list interviewing the selected individuals.

Table C.2  
Chesapeake Bay Beach Use Study Data Collection Schedule

Date	Beach Name	Beach Number	Sample Time	Date	Beach Name	Beach Number	Sample Time
May 26	Pt. Lookout	2	1300	July 8	Kurtz	8	1300
27	Morgantown	11	1000	9			
28	Miami	4	1300	10			
29	Miami	4	1300	11			
30				12	Bay Ridge	7	1300
31				13			
				14	Rocky Pt.	5	1300
June 1				15			
2				16	Miami	4	1300
3	Sandy Pt. (Nofs)	1	1000	17			
4				18			
5				19			
6				20	sandy Pt. (Sofs)	1	1300
7				21	sandy Pt. (Sofs)	1	1300
8				22	Rod & Reel	10	1000
9				23			
10				24			
11				25			
12				26			
13				27			
14	Sandy Pt. (Nofs)	1	1000	28	North Beach	12	1000*
15	Morgantown	11	1300	29	Sandy Pt. (Sofs)	1	1300
16	Sandy Pt. (Nofs)	1	1300	30			
17	Bay Ridge	7	1300	31			
18							
19	Sandy Pt. (Nofs)	1	1300	Aug 1			
20				2	Pt. Lookout	2	1000*
21	Rocky Pt.	5	1000	3			
22	North Beach	12	1000	4	Bay Ridge	7	1300
23	Sandy Pt. (E)	1	1000	5	Ft. Smallwood	3	1000*
24	Rocky Pt.	5	1300	6			
25				7	Rocky Pt.	5	1000
26				8			
27				9			
28				10			
29				11	Kurtz	8	1300*
30	Breezy Pt.	9	1300	12	Pt. Lookout	2	1000
				13			
July 1	sandy Pt. (Sofs)	1	1000	14	Sandy Pt. (E)	1	1300*
2				15			
3				16	sandy Pt. (Sofs)	1	1000
4	Sandy Pt. (E)	1	1300	17			
5				18			
6				19	Sandy Pt. (Nofs)	1	1000*
7							

\*Originally scheduled but subsequently eliminated.

## **Appendix D**

### User Survey instrument

# SCREENING FORM

## I. ASSIGNMENT INFORMATION:

CASE ID #:     Date:   /   (1-4) Time:     (5-8)  
 Month Date  
 SITE #: **m** Weather: S  1 PC  2 C  3 R  4  
 INTERVIEWER NAME \_\_\_\_\_ (9)

## II. INTRODUCTION:

Hello, my name is \_\_\_\_\_. Researchers at the University of Maryland are currently studying citizens' use of the **Chesapeake Bay** and they are looking for certain types of people to answer questionnaire. I would like to ask you 4 questions to determine if you are the type of person we are looking for. First...

## III. ELIGIBILITY:

- (20)
- A. Do you currently live in Maryland, .....  1 (Go to B)  
 Virginia, .....  2 (Go to B)  
 Washington, D.C, or .....  3 (To to C)  
 Some other place? .....  4 (Go to F)
- B. What county do you live in? \_\_\_\_\_ (ENTER, COMPARE AND CODE)
- MARYLAND**  
 (Anne Arundel, Baltimore including city, Carroll, Charles, Harford, Howard, .....  1 (Go to C)  
 Montgomery, Prince George's)
- VIRGINIA**  
 (Arlington, Fairfax, Loudoun, .....  2 (Go to C)  
 Prince William)
- SOME COUNTY NOT LISTED.....  3 (Go to F)
- c. How old are you? (12)  
 Less than 14 years of age. ....  1 (Go to F)  
 Over 14, but less than 18 years of age . . . .  2 (Go to D)  
 18 years of age or older. ....  3 (Go to G)
- D. Did you come here ...with other people including  
 someone you live with who is (13)  
 18 years of age or older? . . . . .  1 (Go to E)  
 ...other people but none you  
 live with who is 18 years  
 of age or older? .....  2 (Go to G)  
 ...by your self? .....  3 (Go to G)
- E. I would like to talk to the person you live with who as 18 years of age or older and is here with you today. Point that person out to me or tell me how and where to find him or her. (WHEN YOU LOCATE THE PERSON, DETERMINE ELIGIBILITY BY VERIFYING OR REASKING ANY OR ALL OF THE QUESTIONS IN PART III. BEFORE YOU BEGIN THE QUESTIONS READ THE INTRODUCTION TO THE NEW PERSON.)



F. (CODE 2 or 3 IN IV BELOW AND SAY:)

You (do not live in the area/belong to the age group) that we wish to survey on this study. Will you give me your name and telephone number in case my supervisor wants to check on my work?

NAME \_\_\_\_\_ TELEPHONE ( ) \_\_\_\_\_

G. (CODE 1 IN IV BELOW AND SAY:)

You are the type of person we want to interview for this study. The questions will take 15 to 20 minutes. Can we start now? (AFTER MEETING OBJECTIONS SAY:) Before I ask the questions I need to keep a record of the people I speak to. What is your name, address, and telephone number? What time did you enter the beach? What time will you leave?

NAME \_\_\_\_\_ TELEPHONE ( ) \_\_\_\_\_

ADDRESS \_\_\_\_\_ TIME ENTERED BEACH: [ ] [ ] [ ] [ ]

(14-17)

TIME LEAVING BEACH: [ ] [ ] [ ] [ ]

IV. RECORD OF ELIGIBILITY (Screening Status)

(18-21)

Eligible ..... [01] (INTERVIEW AND/OR COMPLETE PART V)

Ineligible because of  
Residence ..... [02] (STOP. DO NOT INTERVIEW. READ  
STATEMENT FROM III F, RECORD

Age ..... [03] INFORMATION AND TERMINATE CONTACT. )

Refused Screening . . . . [97]

Language Barrier . . . . [05] (RECORD DETAILS  
IN NOTES SECTION BELOW)

Other (Specify) . . . . [06]

(22-23)

v. RECORD OF INTERVIEW STATUS

Completed ..... [01] (EDIT CASE AND SHIP TO RTI)

Partial/Breakoff. . . . [02] (RECORD DETAILS IN NOTES  
SECTION BELOW)

Refused ..... [97]

Language Barrier . . . . [04]

Other:(Specify) . . . . [05]

(24-25)

VI. NOTES :

COLS. 26-72 = blank  
COLS. 73-80 = SITE/CASE 1

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CHESAPEAKE BAY BEACH USE SURVEY

Conducted by Research Triangle Institute  
for the University of Maryland

NOTICE - Information contained on this form that would permit identification of any individual has been collected with a guarantee that it will be held in strict confidence and used only by persons engaged in or for purposes of this survey. All results will be summarized for groups of people and no information about individuals will be released.

A. IDENTIFICATION

SITE NO.

CASE ID

Field Interviewer Name

Date Interview Completed  /  /   
Month Date Year

B. INTRODUCTION

As I said earlier, researchers at the University of Maryland are currently studying citizens' use of the Chesapeake Bay. I will ask you some questions regarding your recreational use of the Chesapeake Bay, particularly at the beaches. I also have to ask some questions which will enable the researchers to establish profiles of typical users of the Bay. There is no direct benefit from taking part in this study and you have the right to refuse to answer any or all of the questions or discontinue your participation at any time. The information that you provide will be combined with that provided by other people who participate in the survey to assure complete confidentiality and your name will not be released or revealed to anyone other than authorized project staff. It may be necessary to recontact you later to verify the number of times you visited beaches during the season. The results of this survey may be helpful in effectively allocating money to cleaning up the Bay.

C. BEACH UTILIZATION

1. How many of the following types of people are in your party today?

Adults (age 18 and older) . . . . .  ( 1-2 )

Teenagers age 14 years to 18 . . . . .  ( 3 - 4 )

Children under age 14 . . . . .  ( 5-6 )

2. Are you at the beach today with your family? By family I mean people who are related to you by blood, marriage, or adoption, and who live with you .

No . . . . .  (7)

Yes . . . . .

3. [SAMPLE SITE NAME] is situated on the Western Shore of the Chesapeake Bay. Since January 1, 1983, have you (and members of your family who live with you) (READ THE FOLLOWING)

	<u>NO</u>	<u>YES</u>	
a. Visited beaches on the Eastern shore of the Chesapeake, for example, shores close to Cambridge, Salisbury, or Easton? . . . . .	<input type="checkbox"/> 1	<input type="checkbox"/> 2	( 8 )
b. Visited beaches on the ocean, such as Ocean City? . . . . .	<input type="checkbox"/> 1	<input type="checkbox"/> 2	( 9 )
c. gone swimming from a boat in the Chesapeake? . . . . .	<input checked="" type="radio"/>	m <input type="checkbox"/> 2	(10)
d. gone swimming in public or private swimming pools? . . . . .	<input type="checkbox"/> 1	<input type="checkbox"/> 2	(11)

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4. When you visit a Western Shore beach such as this 000, do you (and members of your family who live with You) participate in (READ THE FOLLOWING)

ACTIVITY	NO (Next activity or question)	YES (Ask Q.s 4A.. & 4B.)	4A. How many adults participate in (ACTIVITY)	4B. How many children & teenagers participate in (ACTIVITY)
a. swimming or wading? . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (12) . . . . .	<input type="text"/> (13-14)	<input type="text"/> (15-16)
b. boath ● ctivitioo- sunbathing, picnicking, shelling? . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (17) . . . . .	<input type="text"/> (18-19)	<input type="text"/> (20-21)
c. beach ● ctivitios- playground? . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (22) . . . . .	<input type="text"/> (23-24)	<input type="text"/> (25-26)
d. boating? . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (27) . . . . .	<input type="text"/> (28-29)	<input type="text"/> (30-31)
e. waterskiing? . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (32) . . . . .	<input type="text"/> (33-34) <input type="text"/> 3-34)	<input type="text"/> 3s-s6)
f. Other Activities? (Specify)	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (37) . . . . .	<input type="text"/> (38-39)	<input type="text"/> (40-41)
_____ . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (42) . . . . .	<input type="text"/> (43-44)	<input type="text"/> (45-46)
_____ . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (47) . . . . .	<input type="text"/> (48-49)	<input type="text"/> (50-51)

5. If you (or any members of your family who live with you) don't go into the water, which of the following do you describe why? (READ THE FOLLOWING)

REASON	No (go to next reason)	YES (Ask Q.s 5A. & 5B.)	5A. How many adults do not go into the water because (REASON)?	5B. How many children & teenagers go into the water because (WA
a. Don't know how to swim . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (52) . . . . .	<input type="text"/> (53-54)	<input type="text"/> (55-56)
b. No bathhouse facilities at beach . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (57) . . . . .	<input type="text"/> (58-59)	<input type="text"/> (60-61)
c. Person's health precludes it . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (62) . . . . .	<input type="text"/> (63-64)	<input type="text"/> (65-66)
d. You or they believe water is dirty/polluted . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . (67) . . . . .	<input type="text"/> (68-69)	<input type="text"/> (70-71)
COLS. 72-80 = SITUATION				
e. Too many jellyfish . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . ( 1) . . . . .	<input type="text"/> ( 2-3)	<input type="text"/> ( 4-5)
f. Other reason (SPECIFY . . . . .	<input type="checkbox"/> 1 . . . . .	<input type="checkbox"/> 2 . ( 6) . . . . .	<input type="text"/> ( 7-8)	

6. How many **years have** you (and members of your *family* who live with you) been **coming** to the beaches on the Western Shore?

Number of years . . . . . 11 (12-12)

7. Have you (or anyone in your family who live with you) **changed your swimming** habits in the Chesapeake because of changes in the Bay's water quality?

No. . . . . 1 (GO TO Q.8)

Yes (stopped). . . . . 2

Yes (started). . . . . 3 (13)

- A. In what year did you (or members of your family) last **change** your **swimming** habits in the Chesapeake because of changes in the Bay's water quality?

Year . . . . . 1980 ( 14-15)

The next few **questions** deal with the **frequency with which** you (and your family) **visit beaches** and the cost related to-visits **made to** each beach.

HAND RESPONDENT CARD A.

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8. Look at the beaches listed on this card. Please give me the letter that appears beside the name of each 1 you (and your family) visited since January 1, 1983. Please include this visit to this beach. (CHECK (✓) 1 VISITED AND THEN ASK QUESTIONS 8A and 8B.

BEACH VISITED	Q.8. Check if visited	Q.8A. How many trips did you (and your family) make to (BEACH) in 1983?	Q.8B. How many trips (and your family) to (BEACH) in
a. Sandy Point St. Park . . . . .	m a	<input type="text"/> 0748)	<input type="text"/>
b. Fort Smallwood . . . . .	m a	m (22-23 )	<input type="text"/>
c. Bay Ridge Beach . . . . .	<input type="text"/> (mu)	m (27-28 )	<input type="text"/>
d. Herrington Harbor . . . . .	<input type="text"/> (31)	m (32-33)	<input type="text"/>
e. Kurtz Pleasure Beach . . . . .	m a	m 674)	<input type="text"/>
f. Camp Merrick . . . . .	<input type="text"/> (41)	m (42-43 )	<input type="text"/>
g. Breezy Point Beach . . . . .	<input type="text"/> (46)	m (47-48)	m
h. Chesapeake Beach . . . . .	<input type="text"/> (51)	m (28-ss)	m
i. North Beach . . . . .	<input type="text"/> (58)	m (57-61)	m
j. Rod and Reel Dock . . . . .	(cl)	m (62-63)	m
k. Point Lookout St. Park . . . . .	<input type="text"/> (66)	<input type="text"/> \$7-88 )	<input type="text"/>
COLS. 71-80 = UPSITE/CA			
l. Elm's Beach . . . . .	<input type="text"/> (J)	m ( 24)	<input type="text"/>
m. Morgantown South . . . . .	<input type="text"/> (6)	<input type="text"/> ( 7-4 )	m
n. Miami South (Baltimore) . . . . .	<input type="text"/> (11)	<input type="text"/> 02-13 )	<input type="text"/>
o. Rocky Point Park . . . . .	m a	<input type="text"/> (27-18 )	m
p. Conrad's Ruth Villa . . . . .	<input type="text"/> (21)	m (2s-23)	<input type="text"/>
q. Porter New Park . . . . .	<input type="text"/> (26)	m (2748 e)....a..	m
r. Other (SPECIFY) _____	<input type="text"/> (31)	<input type="text"/> 32-33 )	<input type="text"/>

9. Do YOU (and your family) plan to take any trips to any of the beaches listed on this card during the remainder of summer?

No . . . . . ☐ 1 } (GO TO 0.10) (38)  
 Don't know . . . . . ☐ 2  
 Yes . . . . . ☐ 3

A. Which of these beaches do you plan to visit this summer? Please give me the letter that appears beside the of each beach (CHECK (✓) EACH BEACH MENTIONED AND THEN ASK Q.9B FOR EACH BEACH.)

BEACH	Q.9A. Check if plan to visit	Q.9B. How many trips do you (and your family) intend to take to (BEACH) this summer?
a. Sandy Point St. Park . . . . .	<input type="checkbox"/> 2 (37)	<input type="checkbox"/> (38-39)
b. Fort Smallwood . . . . .	<input type="checkbox"/> 2 up )	<input type="checkbox"/> (41-42)
c. Bay Ridge Beach . . . . .	<input type="checkbox"/> 2 (43)	<input type="checkbox"/> (44-45)
d. Harrington Harbor . . . . .	<input type="checkbox"/> 2 (46)	m 1 (47-48)
e. Kurtz Pleasure Beach . . . . .	<input type="checkbox"/> 2 (as)	m (50-51)
f. Camp Merrick . . . . .	<input type="checkbox"/> 2 (52)	m (53-54)
g. Breezy Point Beach . . . . .	<input type="checkbox"/> 2 (55)	<input type="checkbox"/> (56-57)
h. Chesapeake Botch . . . . .	<input type="checkbox"/> 2 (58)	<input type="checkbox"/> (59-60)
i. North Beach . . . . .	<input type="checkbox"/> 2 (61)	<input type="checkbox"/> (62-63)
j. Rod and Reel Dock . . . . .	<input type="checkbox"/> 2 (64)	<input type="checkbox"/> (65-66)
k. Point Lookout St. Park . . . . .	<input type="checkbox"/> 2 (s?)	m . W - 4 9 )
l. Elm's Beach . . . . .	<input type="checkbox"/> 2 (70)	<input type="checkbox"/> (72-72)
<b>COLS. 73-S0 = SITE/CASE 03</b>		
m. Morgantown Beach . . . . .	<input type="checkbox"/> 2 (1)	<input type="checkbox"/> (2-3)
n. Miami Beach (Baltimore) . . . . .	<input type="checkbox"/> 2 (4)	<input type="checkbox"/> (5-6)
o. Rocky Point Park . . . . .	<input type="checkbox"/> 2 (7)	<input type="checkbox"/> (8-9)
p. Conrad's Ruth Villa . . . . .	<input type="checkbox"/> 2 (10)	<input type="checkbox"/> (11-12)
q. Porter New Park . . . . .	<input type="checkbox"/> 2 (33)	<input type="checkbox"/> (14-15)
r. Other (SPECIFY) _____	<input type="checkbox"/> 2 (1)	<input type="checkbox"/> (17-18)



**INTERVIEWER NOTE:** ASK QUESTIONS 10A-H SEPARATELY FOR EACH BEACH CHECKED IN QUESTIONS 8 AND 9A.

10. Now think about the cost of a typical (family) trip to (BEACH) in 1984.
- A. What would you say the total entrance fee per day, including parking, would be for you (and your family) to (BEACH)? (ENTER AMOUNT IN COLUMN A BESIDE APPROPRIATE BEACH NAME).
  - B. What is the typical cost for you (and your family) to travel to (BEACH)? (ENTER AMOUNT IN COLUMN B BESIDE APPROPRIATE BEACH NAME).
  - C. How much will it, cost you (and your family) per day in other expenditures such as food, hotel or camping fees, and entertainment to (w=)? (ENTER AMOUNT IN COLUMN C BESIDE APPROPRIATE BEACH NAME).
  - D. ADD AMOUNTS ENTERED IN COLUMNS A-C AND ENTER TOTAL IN COLUMN D.
  - E. How much travel time does it typically take you (and your family) to make round-trip from your home to (BEACH)? (ENTER TIME IN COLUMN E BESIDE BEACH NAME).
  - F. How many miles is it round-trip from your home to (BEACH)? (ENTER NUMBER OF MILES IN COLUMN F BESIDE BEACH NAME).
  - G. How much time do you (and your family) typically spend on the beach per day when you visit (BEACH)? PROBE FOR BEST ESTIMATE OF THE NUMBER OF HOURS AND ENTER NUMBER IN COLUMN G BESIDE BEACH NAME.
  - H\* What is the average number of days that you and your family spend on a typical trip to (BEACH)? (ENTER NUMBER IN COLUMN H BESIDE BEACH NAME).

TABLE 1  
QUESTION 10  
(Continued) .

	A	B	C	D	E	F	G	H
Beach	Entrance Fee (1-2)	Travel Costs (3-6)	Other Expen (7-11)	Total Co (12-17)	R-T Time (18-19)	R-T Miles (20-23)	Time 00 Beach (24-25)	Da I Tr (26)
k. Point Lookout St. Park	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
l. Elm's Beach	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(28-29)	(30-33)	(34-38)	(39-44)	(45-46)	(47-50)	(51-52)	(53)
	COLS. 55-72 = blank COLS. 73-80 = SITE/CASE							
m. Morgantown Beach	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
n. Miami Beach (Bolt-se)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(28-29)	(30-33)	(34-38)	(39-44)	(45-46)	(47-50)	(51-52)	(53)
	COLS. 55-72 = blank COLS. 73-80 = SITE/CASE							
o. Rocky Point Park	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
p. Conrad's Ruth Villa	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(28-29)	(30-33)	(34-38)	(39-44)	(45-46)	(47-50)	(51-52)	(53)
	COLS. 55-72 = blank COLS. 73-80 = SITE/CASE							
q. Porter New Park	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
r. Other (SPECIFY)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	(28-29)	(30-33)	(34-38)	(39-44)	(45-46)	(47-50)	(51-52)	(53)

**HAND RESPONDENT CARD B**

11. Please read the water quality characteristics listed on this card and rank them according to how important they are to you (and your family) when deciding whether or not to visit a beach. Please rank them on a scale of 1 to 5, with 1 being least important and 5 being most important.

	<u>RANK</u>
a. Presence of cloudy water . . . . .	_____ (55)
b. Presence of floating debris or oil . . . . .	_____ (56)
c. Presence of odors . . . . .	_____ (s7)
d. Presence of jellyfish . . . . .	_____ (58)
e. Presence of seaweed and other aquatic plants. . . . .	_____ (59)

**HAND RESPONDENT CARD c**

12. Each summer jellyfish, also called sea nettles, appear in the waters of the Chesapeake Bay. Look at the statements on this card and tell me which one describes your (and your family's) behavior after jellyfish appear.

- a. Stop going to the beach when jellyfish appear . . . . . 1
- b. Still go to the beach, but less often . . . 2 (60)
- c. Continue to go to the beach, but don't go into the water . . . . . 3
- d. Don't consider presence of jellyfish at all . . . . . 4

COLS. 61-72 = blank
COLS. 73-80 = SITE/CASE 12

THIS **PAGE** INTENTIONALLY **BLANK**

- 13\* A. **HAND RESPONDENT CARD A.** We would like to find out how beach users perceive the water quality, the quality of the beach facilities, the beach quality, and crowding at the beaches on the Chesapeake Bay. Please give me the letter that appears beside the name of each beach on this card that you (and your family) are familiar with. By "familiar," I mean that you know something about the beach either by having been there or you have heard about it through some other source. Please include this beach in the ones that you mention. (CHECK COLUMN A FOR EACH BEACH MENTIONED.)

ASK QUESTIONS 13B-E SEPARATELY FOR EACH BEACH MENTIONED.

- B. Do you consider the water quality at (BEACH) acceptable or unacceptable for swimming and/or other water activities? (CHECK APPROPRIATE CODE IN COLUMN B BESIDE BEACH NAME).
- C. What about the beach facilities, such as space, bathhouses, tables, swimming guards, etc. at (BEACH). Would you rate it as acceptable or unacceptable? (CHECK APPROPRIATE CODE IN COLUMN C BESIDE BEACH NAME) .
- D. Think about the beach itself at (BEACH). Do you feel that the quality of the beach is acceptable or unacceptable? (CHECK APPROPRIATE CODE IN COLUMN D BESIDE BEACH NAME).
- E. Do you feel that the size of the crowd at (BEACH) is acceptable or unacceptable? (CHECK APPROPRIATE CODE IN COLUMN E BESIDE BEACH NAME) .

TABLE 2  
QUESTIONS 13A-E

Beach	A Check if familiar	Water Quality		Beach Facilities		Beach Quality		Craving	
		Acceptable	Unacceptable	Acceptable	Unacceptable	Acceptable	Unacceptable	Acceptable	Unacceptable
Sandy Point St. Park . . .	<input checked="" type="checkbox"/> (1) "	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (2)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (3)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (4)	<input checked="" type="checkbox"/> .	p (s)
Fort Smallwood . . .	<input checked="" type="checkbox"/> (6) "	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (7)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (8)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (9)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (10)
Bay Ridge Beach . . .	<input checked="" type="checkbox"/> (11)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (12)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (23)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (14)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (15)
Herrington Harbor . . .	<input checked="" type="checkbox"/> (16) "	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (17)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (18)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (19)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (20)
Kurtz Pleasure Beach . . .	<input checked="" type="checkbox"/> (21) "	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (22)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (25)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (26)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (28)
Camp Merrick . . .	<input checked="" type="checkbox"/> (28)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (27)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (29)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (w)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (30)
Breezy Point Beach . . .	<input checked="" type="checkbox"/> (32) "	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (32)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (\$3)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (s4)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (38)
Chesapeake Death . . .	<input checked="" type="checkbox"/> (36) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (37)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (38)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (22)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (40)
North Beach . . .	<input checked="" type="checkbox"/> (41) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (42)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (43)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (44)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (45)
Rod and Reel "tick" . . .	<input checked="" type="checkbox"/> (46) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (47)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (48)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (48)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (50)
Point Lookout St. Park . . .	<input checked="" type="checkbox"/> (51) (52) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (52)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (53)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (s4)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (55)
Elm's Beach . . .	<input checked="" type="checkbox"/> (58) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (57)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (58)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (59)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (60)
Morgantown Beach . . .	<input checked="" type="checkbox"/> (62) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (62)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (63)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (64)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (65)
Miami Beach (Baltimore) . . .	<input checked="" type="checkbox"/> (66) (67) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (67)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (68)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (69)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (70)
COLS. 71-80 : SITE/CASI									
Rocky Point Park . . .	<input checked="" type="checkbox"/> (71) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (72)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (73)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (74)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (75)
Conrad's Rut Villa . . .	<input checked="" type="checkbox"/> (76) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (77)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (78)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (79)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (80)
Porter New Park . . .	<input checked="" type="checkbox"/> (81) "	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (82)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (83)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (84)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (85)
Other (SPECIFY) . . .	<input checked="" type="checkbox"/> (28)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (87)	<input checked="" type="checkbox"/> . .	<input checked="" type="checkbox"/> (88)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (89)	<input checked="" type="checkbox"/> .	<input checked="" type="checkbox"/> (90)

# INTERVIEWER CHECKPOINT 1

CHECK **THE** RESPONSES TO QUESTION 8B FOR **THE NUMBER** OF TRIPS **THE** RESPONDENT **HAS MADE** TO THE SAMPLE SITE IN 1984 AND QUESTION 9B FOR **THE NUMBER OF** TRIPS THE RESPONDENT **PLANS TO TAKE TO THE SAMPLE SITE DURING THE REMINDER OF THIS SUMMER**. ADD THE **NUMBER ENTERED FOR BOTH QUESTIONS AND RECORD IT HERE**. →

TOTAL NUMBER OF 1984 TRIPS = \_\_\_\_\_

CHECK COLUMN D IN **TABLE 1** FOR THE **TOTAL COST OF A TYPICAL 1984 TRIP TO THE SAMPLE SITE**. ENTER THE AMOUNT HERE →

TOTAL COST OF **TYPICAL** 1984 TRIP \$ \_\_\_\_\_

INSERT THE TOTAL NUMBER OF 1984 TRIPS AND **THE** TYPICAL 1984 COST PER TRIP IN **THE** APPROPRIATE SPACES **WHEN** QUESTION 14 IS **ASKED**.

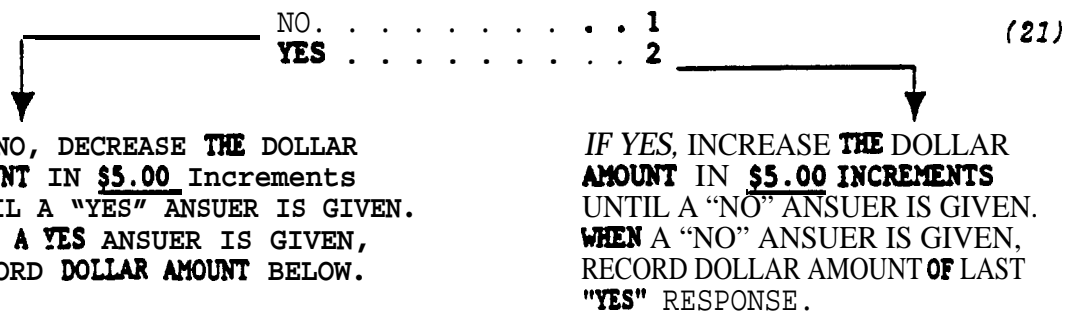
ENTER **THE LAST** DIGIT OF **THE** CASE ID **NUMBER** = \_\_\_\_\_

If last digit is

Use \$ amount below in  
Question 14

0	.....	\$50.00
1	.	\$45.00
2	.....	\$40.00
3	.....	\$35.00
4	.....	\$30.00
5	.....	\$25.00
6	.....	\$20.00
7	.....	\$15.00
8	.....	\$10.00
9	.....	\$5.00

14. According to your responses to previous questions, you (and your family) take about **(TOTAL NUMBER OF 1984 TRIPS)** to this site per year at an approximate cost of **(TOTAL COST OF TYPICAL 1984 TRIP)** per day. If your costs **per day** were to **rise** by (USE INITIAL AMOUNT FROM TABLE ABOVE), would **you** still visit this **site**? Keep in mind that the costs of visiting other sites on the Chesapeake or participating in other activities would **remain** the **same**.



14. \_\_\_\_\_ DOLLARS

### INTERVIEWER CHECKPOINT 2

ENTER **THE** LAST DIGIT **OF THE** CASE ID NUMBER = \_\_\_\_\_

If last digit is

Use \$ amount below in  
Questions 15 and 16

1	.....	\$ 5.00
2	.....	\$10.00
3	.....	\$ 15 . 0 0
4	.....	.\$20.00
5	.....	.\$25.00
6	.....	.\$30.00
7	.....	.\$35.00
8	.....	.\$40.00
9	.....	<b>\$45.00</b>
0	.....	<b>\$50.00</b>

15. Jellyfish are frequently identified as nuisance to swimmers. Would you (and your family) be willing to pay (AMOUNT FROM CP 2) per year in extra state or federal taxes if jellyfish could be eliminated as nuisance without any adverse ecological effects?

No. .... ☐ 01

Yes ..... ☒ 02 (26-2?)

Don't Know ..... ☒ m

### INTERVIEWER CHECKPOINT 3

REFER TO COLUMN B IN TABLE 2 (QUESTIONS 13A-D)

WAS THE WATER QUALITY OF THIS SITE RATED AS UNACCEPTABLE?

No. .... ☐ 1 → (GO TO Q.17)

Yes ..... ☒ m " (ASK Q. 16) (28)

16. You indicated that the water quality at this site is unacceptable for swimming. Would you be willing to pay (AMOUNT FROM CP 2) in extra state or federal taxes if the water quality were improved so that you found it acceptable to swim here?

No. .... ☐ 01

Yes ..... ☐ 02

Don't Know ... ☐ 98 (29-30)



17. The next few questions **are** about you and your household. How many of each of the following types of people live in your household? (READ EACH OF THE FOLLOWING AND ENTER THE NUMBER OF EACH TYPE).

a. Adults (age 18 and older) . . . . .   (32-32)

b. Children between the ages of 14 and 18 . . .   (33-34)

c. Children under age 14 . . . . . **m** (35-35)

18. **HAND CARD D.** Which of the relationships listed on this card best describes your status in your household?

a. Grandparent . . . . . ☒ m

b. Husband . . . . .  2

c. Wife . . . . . ☒ | (37)

d. Child . . . . . ☒ m

e. Other Relative . . . . . ☒ m

f. I live alone or with unrelated individuals . . . ☒ EJ

19. How many years have You (and your family) lived in either Maryland, Virginia or Washington; D.C.?

Number of years . . . . . **m** (38-39)

20. Do you or any other member of your household own (READ THE FOLLOWING)

	<u>NO</u>	<u>YES</u>	<u>DK</u>	<u>RF</u>	
a. boat? . . . . .	<input checked="" type="radio"/>	m * * m *	<input type="text"/> 98	<input type="text"/> 97	(40-41)

b. boat trailer? . . . . .	<input checked="" type="radio"/>	c m = m z l *	<input type="text"/> 98	<input type="text"/> 97	(42-43)
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c. fishing tackle (rod, reel, tackle box, etc.)? . . . . .	<input checked="" type="radio"/>	m * * m *	<input type="text"/> 98	<input type="text"/> 97	(44-45)
--	----------------------------------	-----------	-------------------------	-------------------------	---------

d. recreational vehicle (RV)? . . . . .	<input type="text"/> 01	<input type="text"/> 02	<input checked="" type="radio"/>	EE	<input type="text"/> 97	(46-47)
---	-------------------------	-------------------------	----------------------------------	----	-------------------------	---------

e. swimming pool? . . . . .	<input type="text"/> 01	<input type="text"/> 02	<input checked="" type="radio"/>	98	<input type="text"/> 97	(48-49)
-----------------------------	-------------------------	-------------------------	----------------------------------	----	-------------------------	---------

f. Other recreational items (SPECIFY)	<input type="text"/> 01	<input checked="" type="radio"/>	<input type="text"/> 02	<input type="text"/> 98	<input type="text"/> 97	(50-51)
_____	<input type="text"/> 01	<input type="radio"/>	<input type="text"/> 02	<input type="text"/> 98	<input type="text"/> 97	

21. Are you one of the principal wage **earners** in your household, ☐ wage earner but not the **principal** wage ☐ arner, **or** ☐ are you ☐ homemaker, a student **or** retired?

- a. One of the principal wage earners in the **family** . . . . . ☐ 1
- b. A wage ☐ arner but not the principal wage ☐ arner. . . . . 6. . . . . ☒ 2
- c. **Homemaker** . . . . . ☐ 3 (52)
- d. Retired . . . . . ☒ 4
- e. Student . . . . . ☐ 5
- f. Other (**SPECIFY**) \_\_\_\_\_ . . ☐ 6

INTERVIEWER NOTE: ASK QUESTIONS 22 **THROUGH** 24 IF CODE 1 OR 2 IS **MARKED** IN QUESTION 21. OTHERWISE GO **TO** QUESTION 26.

22. How many hours do you **usually** work per week?

Hours. . . . .   (53-54)

23. How many paid **vacation** days will you have ☒ lto@er in 1984, including those you've ☐ lready **taken**?

Vacation Days . . . . .   (5s-56)

24. For your typical trip **to the** beach, if you hadn't gone to the beach, could you have worked ☐ t**some** job instead?

No . . . . . ☒ m (57)

Yes . . . . . ☒ m

25. If You could have worked, what hourly wage might you have been paid specifically for the hours 'you Worked?'

- a. \$3.35/hour . . . . . ☐ 01
- b. \$3.36-\$5.00/hour . . . . . ☐ 02
- c. \$5.00-\$7.50/hour . . . . . ☐ 03
- d. \$7.50-\$10.00/hour . . . . . ☒ 04
- e. \$10.00-\$15.00/hour . . . . . ☒ UKI
- f. \$15.00-\$20.00/hour . . . . . ☒ 06
- g. \$20.00-\$25.00/hour . . . . . ☒ 10
- h. Over \$25.00/hour . . . . . ☒ 11
- i. Don't Know . . . . . ☐ 98
- j. Refuse . . . . . ☒ 97

(58-5S)

26. Are there ☒ ny (other) major wage earners in your family with you today?

No. . . . . ☒ E (00 TO Q.31)

Yes . . . . . ☒ I (ASK Qs . 27-30)

(60)

The next few questions are about the other major wage earner who is with you today .

27. How many hours does he/she usually work per week?

Hours . . . . . m

(51-72)

28. How many paid vacation days will he/she have together in 1984?

Vacation Days . . . . .

(83-64)

29. For the typical trip to the beach, if he/she hadn't gone to the beach, could he/she have worked at some paying job instead?

No. . . . . ☒ 1

Yes . . . . . ☐ 2

(65)

30. If **he/she** could have worked, **what** hourly rate would he/she have been paid specifically for the **hours** worked?

- a. \$3.35/hour . . . . . ☐ 01
- b. \$3.36-\$5.00/hour . . . . . ☐ 02
- c. \$5.00-\$7.50/hour . . . . . ☒ m
- d. \$7.50-\$10.00/hour . . . . . ☒ m
- e. \$10.00-\$15.00/hour . . . . . ☐ 05 (66-\$7)
- f. \$15.00-\$20.00/hour . . . . . ☒ m
- g. \$20.00-\$25.00/hour . . . . . ☒ m
- h. Over \$25.00/hour . . . . . ☐ 11
- i. Don't Know . . . . . ☒ m
- j. Refuse. . . . . ☐ 97

31. HAND **CARD E**. Which one of the categories on this card best describes your (family's) income during 1984? Please give me the letter that ☒ appears beside the category?

- |   |  |         |
|---|--|---------|
| a. . . . . <input checked="" type="radio"/> EEI | g. . . . . <input type="checkbox"/> 10 |         |
| b. . . . . <input type="checkbox"/> 02          | h. . . . . <input type="checkbox"/> 11 |         |
| c. . . . . <input checked="" type="radio"/> m   | i. . . . . <input type="checkbox"/> 12 |         |
| d. . . . . <input checked="" type="radio"/> m   | j. . . . . <input type="checkbox"/> 13 | (68-69) |
| e. . . . . <input type="checkbox"/> 05          | k. . . . . <input type="checkbox"/> 14 |         |
| f. . . . . <input type="checkbox"/> 06          | l. . . . . <input type="checkbox"/> 15 |         |
| DK . . . . . <input type="checkbox"/> 98        |  |         |
| RF. . . . . <input type="checkbox"/> 97         |  |         |

32. CODE SEX BY OBSERVATION.

- Female. . . . . ☐ 1
  - Male . . . . . ☐ 2
- (?0)

33. CODE RACE BY OBSERVATION.

White . . . . . ☐ 1

Black . . . . . ☒ m

(71)

Oriental . . . . . ☐ 3

Other (SPECIFY) . . . . . ☐ 4  
\_\_\_\_\_

COLS. 72-80 = SITE/CASE 141

Thank you for participating in our survey of beach users. Your responses will be helpful to us and hopefully to the State and Federal governments in determining the status of swimming and other activities on Chesapeake Bay.

# TELEPHONE **CONFIRMATION** QUESTIONS

FOR EACH **BEACH LISTED** ASK 34. A. AND B. BEFORE GOING **TO NEXT** BEACH .

34. **A.** **During** 1984 how many times have you (or members of your family who live with you) visited (ENTERED NAME **OF BEACH**)?  
**RECORD ANSWER IN COLUMN A AND ASK:**

**B.** **During** the remainder of 1984 how many times will you (or members of your family who live with You) visit (ENTER NAME **OF BEACH**)?  
**RECORD ANSWER IN COLUMN B AND GOTO NEXT BEACH.**

		34.A		34.B	
	<u>BEACH</u>	<u>VISITS</u>		<u>PLANNED VISITS</u>	
a\	Sandy Point St. Park . . . .	<input type="text"/>	(1-2) "	<input type="text"/>	<b>(3-4)</b>
b.	Fort <b>Smallwood</b> . . . . .	<input type="text"/>	(5-6) ."	<input type="text"/>	<b>(7-8)</b>
c.	<b>Bay Ridge</b> Beach . . . . .	<input type="text"/>	(9-10) ..	<input type="text"/>	<b>(11-12)</b>
d.	<b>Herrington</b> Harbor . . . . .	<input type="text"/>	(13-14) .	<input type="text"/>	<b>(25-16)</b>
e.	<b>Kurtz</b> Pleasure Beach . . . .	<input type="text"/>	<b>(17-18)</b> .	<input type="text"/>	<b>(19- 20)</b>
f.	<b>Camp Merrick</b> . . . . .	<input type="text"/>	(21-22) " "	<input type="text"/>	<b>(23-24)</b>
g.	Breezy Point <b>Beach</b> . . . . .	<input type="text"/>	(25-28) .	<input type="text"/>	<b>(27-28)</b>
h.	Chesapeake Beach . . . . .	<input type="text"/>	(29-30) ..	<input type="text"/>	<b>(31-32)</b>
i.	<b>North</b> Beach . . . . .	<input type="text"/>	(33-34)" "	<input type="text"/>	<b>(35-36)</b>
j.	Rod <b>●</b> nd Reel Dock . . . . .	<input type="text"/>	(37-38)" .	<input type="text"/>	<b>(39-40)</b>
k.	Point Lookout St. Park . . .	<input type="text"/>	(41-42) .	<input type="text"/>	<b>(43-44)</b>
l.	Elm's Beach . . . . .	<input type="text"/>	(45-46) ..	<input type="text"/>	<b>(47-48)</b>
m.	<b>Morgantown</b> Beach . . . . .	<input type="text"/>	(49-50)" "	<input type="text"/>	<b>(51-52)</b>
n*	<b>Miami</b> Beach (Baltimore) . .	<input type="text"/>	(53-54) . "	<input type="text"/>	<b>(55-56)</b>
o.	Rocky Point Park . . . . .	<input type="text"/>	(57-58) ..	<input type="text"/>	<b>(59-60)</b>
p"	Conrad's <b>Ruth</b> Villa . . . .	<input type="text"/>	<b>(61-62)</b> .	<input type="text"/>	<b>(65-64)</b>
q.	Porter <b>New</b> Park . . . . .	<input type="text"/>	(65-66)* .	<input type="text"/>	<b>(67-68)</b>
r.	<b>Other</b> (SPECIFY) _____	<input type="text"/>	(69-70)	<input type="text"/>	<b>(71-72)</b>

**COLS. 73-80 SITE/CASE 15**

AFTER PART **r** SAY: Thank you for taking **part** in the survey **●**nd talking to **me** today. 'The information you-have provided will be very helpful in **determin-**  
**ing** use of the Chesapeake.

**CHESAPEAKE BAY BEACH USE SURVEY  
TELEPHONE CONFIRMATION  
SCRIPT AND INTRODUCTION**

I am calling to **speak** with ( INSERT NAME ). IF NOT THERE,  
FIND OUT ~~WHEN~~ HE/SHE WILL BE AVAILABLE. WHEN AVAILABLE SAY:

**My** name is (INSERT NAME) ●nd I'm calling for the University of Maryland.  
On ( INSERT DAY AND DATE you were interviewed ●t (INSERT THE **NAME** OF THE BEACH  
**WHERE INTERVIEW** TOOK PLACE) by ●lady working for the University on ●survey  
about the Chesapeake Bay. Do you remember **that** interview? (IF YES PROCEED.  
IF NO, TRY TO REFRESH THE RESPONDENT'S MEMORY BY TELLING HIM OR HER THE TYPE  
OF QUESTIONS ASKED. IF STILL NO, TERMINATE THE CALL).

I'm calling **today to confirm some of the information you reported the day**  
you were interviewed. I **want** to know which beaches you have visited or plan  
to visit on the Western Shore of the Chesapeake Bay. I will read through ●  
list of beaches ●nd ●sk ●bout each one individually. First,

GO TO QUESTION 34.A.